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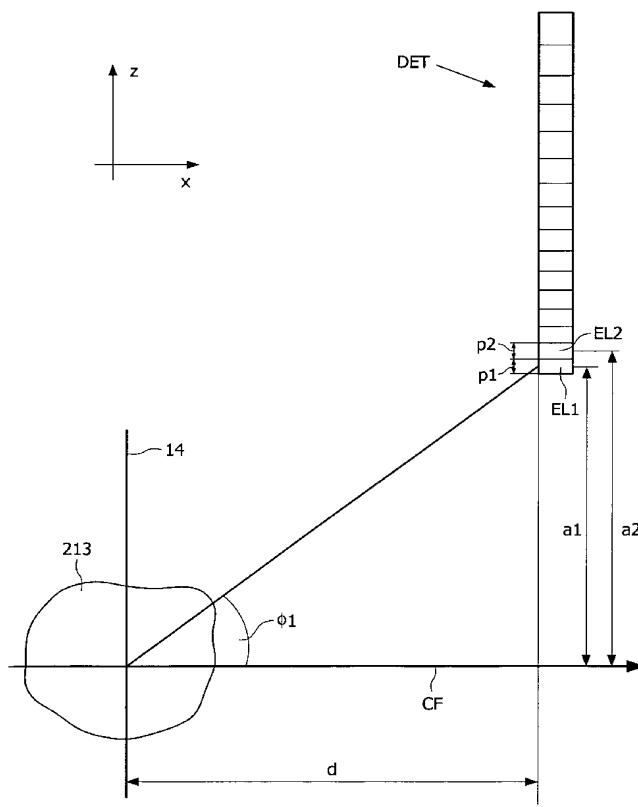
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(54) Title: COMPUTER TOMOGRAPH AND RADIATION DETECTOR FOR DETECTING RAYS THAT ARE ELASTICALLY SCATTERED IN AN OBJECT



(57) Abstract: The invention relates to a computer tomograph and to a radiation detector for detecting elastically scattered rays. The computer tomograph comprises a radiation source for radiating primary radiation through an object which is present in an examination region. The primary radiation is partly scattered in the object owing to interactions with the object. A detector comprises detector elements by which the scattered rays are detected. These detector elements lie outside the region through which the primary radiation is passed, and their effective dimensions become smaller in the direction in which the scattering angles become smaller.

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